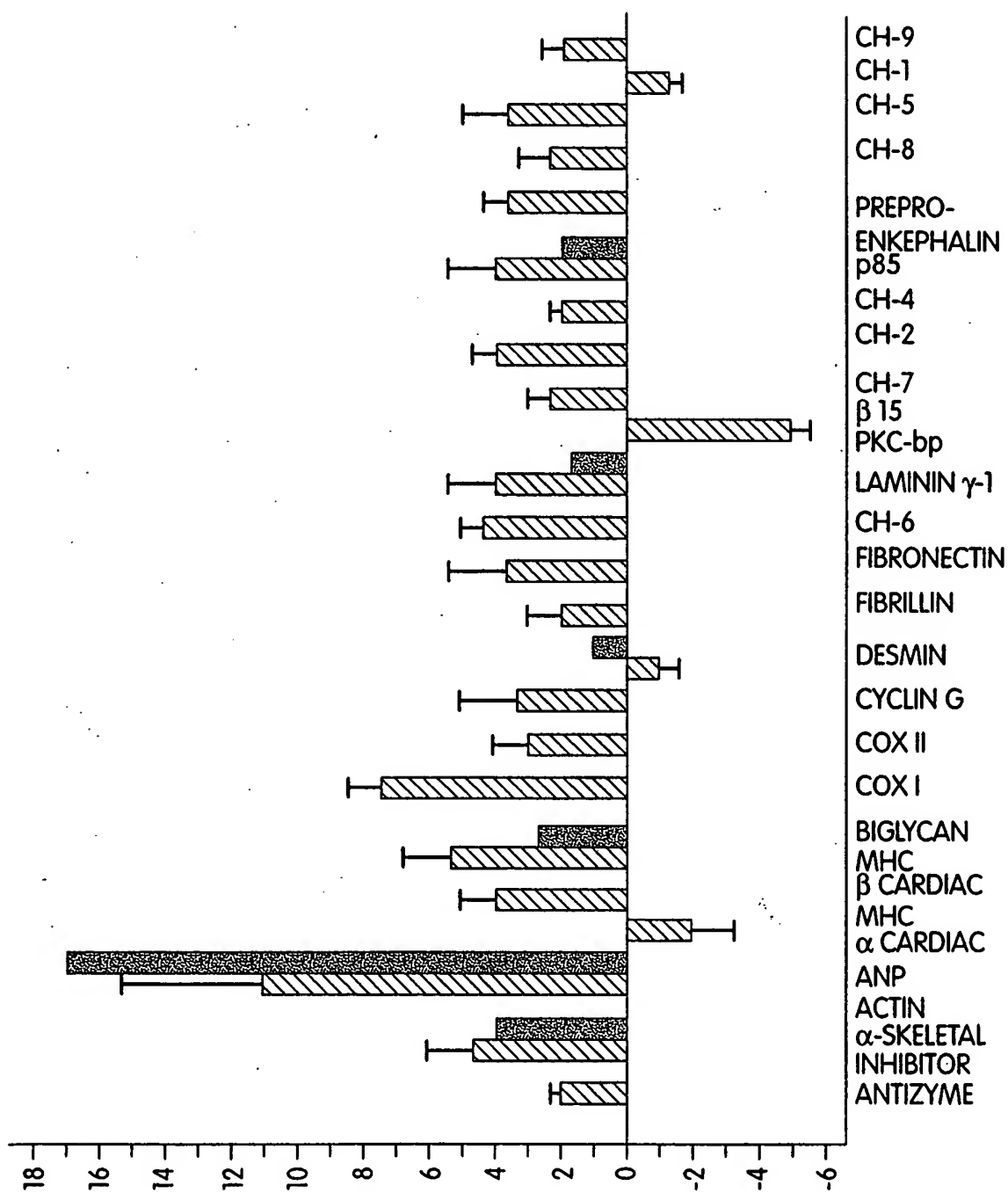


Fig. 1



## PANEL A

1 ggtacctggn tggccaagaa gttgcgnant ttgtntggna gagtggtaag cagtggggtg  
61 gcaaacagac ctggagcaat tgttaccaca cggatgccta taggagcnag atct

### PANEL B

```

QUERY:      114 AGATCTNGCTCCTATAGGCATCCGTGTGGTAACAATTGCTCCAGGTCGTGTTTGCCACCCC 55
              ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
SUBJECT:    665 AGATCTGGCTCCTACAGGCATCCGTGTGGTAACAATTGCGCCAGGTTTGTGTTTGCCACCCC 724

```

[illegible]

### PANEL C

```
QUERY:      113 GATCTNGCTCCTATAGGCATCCGTGTTGGTAACAATTGCTCCAGTCTGTTGTCACCCCA 54  
             ||||| ||||| ||||| ||||| | ||||| ||||| ||||| ||||| |||||  
SBJCT:     568 GATCTGGCTCCCATAGGTATCCGGTGATGCCATTGCCCAAGTCTGTTTGGCACCCCCA 627
```

[illegible]

**Fig. 2**

PANEL A

1 rgatccaggg aatcctgcag ttccaggagg accaggggga cctgggttgcc cgtcactgcc  
61 ccgagcacca tcattgcctc gacacactgc ggctccagga agacctggtc gtcctcgctc  
121 accaggagcc cctctgggac ccatggggcc aggagctccg ttgtctcccg gaagaccggt  
181 ttcacccctc aatccagg

PANEL B

QUERY:	197	CCTGGATTGAAGGGTGAAAACGGTCTTCCGGGAGACAACGGAGCTCCTGGCCCCCATGGGT	138
SBJCT:	857	CCTGGACTGAAGGGTGAAAATGTTCTTCCAGGAGACAACGGAGCTCCTGGCCCCCATGGGT	916
QUERY:	137	CCCAGAGGGGCTCCTGGTGAGCGAGGACGACCAGGTCTTCTGGAGCCGCGAGGTGCTCGA	78
SBJCT:	917	CCTAGAGGGGCTCCTGGTGAGCGAGGACGACCAGGCCCTTCTGGAGCTGCAGGTGCTCGA	976
QUERY:	77	GGCAATGATGGTGCTCGGGGCAGTGACGGGCAACCAAGGTCCCCCTGGTCCCTCTGGAAC	18
SBJCT:	977	GGCAATGATGGTGCTCGGGGCAGTGATGGGCAACCTGGTCCCCCTGGCCCTCCTGGAAC	1036
QUERY:	17	GCAGGATTCCTGGATC	1
SBJCT:	1037	GCAGGATTCCTGGATC	1053

Fig. 3

PANEL A

1 tccggagtgg acagccagta ggagtagtcg ttcttgagg cgaagttgca gacgttgttg  
61 atgttgaga agaggaagg catggtgctg aacttgcgca gacagctgcc agccgtaccc  
121 aagtcctgac catgggccc ctcgtttcct tggacataga gcagagagta cccatggtaa  
181 agaattttgg tccctgggg acacagcggg tcattctcacn gtctgactat gcctgggtcac  
241 aaggaagcca tgggtccacag atgggggtacc

PANEL B

QUERY: 270 GGTACCCCATCTGTGGACCATGGCTTCCTTGTGACCAGGCATAGTCAGACNGTGAGATGA 211  
GGTACCCCATCTGTGGACCATGGCTTCCTTGTGACCAGGCATAGTCAGAC AGATGA  
SBCT: 4443 GGTACCCCATCTGTGGACCATGGCTTCCTTGTGACCAGGCATAGTCAGACAAC-AGATGA 4501  
QUERY: 210 CCCGCTGTGTCCCCAGGGACCAAAATCTTTACCATGGGTACTCTCTGCTCTATGTCCA 151  
CCC CTGTGTGTCCCCAGGGACCAAAATCTTTACCATGG TACTCTCTGCTCTATGTCCA  
SBCT: 4502 CCCACTGTGTGTCCCCAGGGACCAAAATCTTTACCATGGATACTCTCTGCTCTATGTCCA 4561  
QUERY: 150 AGGAAACGAGCGGCCCATGGTCAGGACTTGGGTACGGCTGGCAGCTGTCTGCCGAAGTT 91  
AGG AACGAGCG GCCCCA GG CAGGACTTGGGTACGGCTGGCAGCTG CTGCG AAGTT  
SBCT: 4562 AGGCAACGAGCGTGCCCCACGGGCAGGACTTGGGTACGGCTGGCAGCTGCCGTAAGTT 4621  
QUERY: 90 CAGCACCATGCCCTTCCTCTTCTGCAACATCAACAACGCTGCAACTTCGCCCTCCAGGAA 31  
CAGCACCATGCCCTT CTCTTCTGCAACATCAACAACGCTGCAACTTCGCCCTCCAGGAA  
SBCT: 4622 CAGCACCATGCCCTTCTCTTCTGCAACATCAACAACGCTGCAACTTCGCCCTCCAGGAA 4681  
QUERY: 30 CGACTACTCCTACTGGCTGTCCACTCCGGA 1  
CGACTACTC TACTGGCTGTCCAC CC GA  
SBCT: 4682 CGACTACTCTTACTGGCTGTCCACGCCAGA 4711

Fig. 4

PANEL A  
1 ggtaccttcn attgttccc atgctatcnn atccntaagg atgccctggt ttcccagcca  
61 ncnnagtgc tgcaccnngn aggattgect gctgncntn cnntgacttt tctgttccgg  
121 a

PANEL B

QUERY:	1	GGTACCTTCNATTTGTTCCCATGCTATCINNATCCNTAAAGGATGCCCTGGTTTCCCAGCCA	60
SBJCT:	687	GGTACCTTCAATGTGTTTCCCATGTTACCAACTCCATAAAGATGCCCTGGTTTCCCAGCCA	746
QUERY:	61	NCNNAGTGTCTGCACCCNGNAGGATTGCCCTGCTGNCITNTNCNNTGACTTTTCTGTTCGG	120
SBJCT:	747	ACCAGGTACTTGCACCCAGAGGATTGCCCTCCGACTACACAATCAGTTTTCATATTCGG	806
QUERY:	121	A	121
SBJCT:	807	A	807

Fig. 5

PANEL A  
1 yggccacggc ggcctgcggg gcntnancgg gtttccctca gggcaaatga tataaggctc  
61 ggtacc

PANEL B  
QUERY: 1 GGCCACGGCGGCTCGGGGCN-TNANCGGGTTTTTCCTCAGGGCAAATGATAT-AAGGCT 58  
GGCCACGGCGG CT CG GGC T CGGGTTTT TCAGG CAAATGAT AAGG T  
SBJCT: 186 GGCCACGGCGGTCTCCGAGGCTATCTACGGGTTTTTTTCAGGACAAATGATGCCGAAGGT 245  
QUERY: 59 CGGTAC 64  
GGTAC  
SBJCT: 246 -GGTAC 250

Fig. 6

PANEL A

1	gtgcacacac actatagttt tctgtcttgt ccttnngttc tctctgggag atggacaacc
61	ctcaaaggca ctgattgntg acattntntag ctctgntcct tactcaggca gccagctcag
121	ccaagggccg gtccaaggga tcc

PANEL B

QUERY: 143	GGATCCCTTGGACCGGGCCCTTGGCTGAGCTGGCTGCCCTGAGTAAGGANCAGAGCTANNAA 84
	GGATCC TTGGACCGGGCCCTTGGCTGAGCTGGCTGCCCTGAGTAAGGA CA AGC A AA
SBJCT: 2175	GGATCCCTTGGACCGGGCCCTTGGCTGAGCTGGCTGCCCTGAGTAAGGACCA-AGCCATCAA 2233
QUERY: 83	TGTCANCAATCAGTGCCCTTTGAGGGTTGTCCATCTCCCAGAGAGAACNNAAGGACAAGCA 24
	TGTCA CAATCAGTGCCCTTTGAGGGTTGTCCATCTCCCA AGA A C A GG CAAGCA
SBJCT: 2234	TGTCACCAATCAGTGCCCTTTGAGGGTTGTCCATCTCCCAAGACATCATATGG-CAAGCA 2292
QUERY: 23	GGAAAACTATAGTGTGTGCAC 1
	GGAAAACTAT TGTGTG GC C
SBJCT: 2293	GGAAAACTATGATGTGTGCGCGC 2315

Fig. 7

PANEL A

1	rgatcccaag	tcacagcatt	ttcccacgta	actcgactct	gaggccatag	cctatccaca
61	gcctcctcgt	ccccgcacc	gccacgtgtc	tcaactggctg	tggtggagac	gggaattgca
121	taagctt					

PANEL B

QUERY:	1	RGATCCCAAGTCACAGCATT	TTCCCA	CGTA	ACTCGACTCTGAGGCCATAGCCTATCCACA	60
		+				
SBJCT:	1149	AGATCCCAAGTCACAGCATT	TTCCCA	CGTTACTCGACTCTGAGGCCATAGCCTATCCACA	1208	
QUERY:	61	GCCTCCTCGTCCCCTGCA	CCGCCAGTGCTCTCA	CTGGCTGTGTGGAGACGGGAATTGCA	120	
SBJCT:	1209	GCCTCCTCGTCCCCTGCA	CCGCCAGTGCTCTCA	CTGGCTGTGTGGAAACGGGAATTGCA	1268	
QUERY:	121	TAAGCTT				
SBJCT:	1269	TAAGCTT				

Fig. 8



## PANEL A

1 aagcttgac agatcaaaag aaatggaacc gtgtgggac aggcaata aaaaaactca  
61 cggtgcnatt ctcnccataa agcgaaacgg tttaaatgca gcagtgtgan ttcttccan  
121 ttcccttctct gggatttcag gggatcc

### PANEL B

QUERY: 147	GGATCCCCTGAAATCCACAGAGAAAGGAANTGGGAAGAANTCACACTGCTGCAATTTAAACCG 88
	GGATCCCCTGAAATCCC GAGAAG TGGGAAGAA TCA ACTG TGCATTTAA CG
SBJCT: 3254	GGATCCCCTGAAATCCCGGAGAAAGAGCCTGGGAAGAA-TCAAACTGATGCAATTTAAACGCG 3312
QUERY: 87	TTTTCGCTTTATGNNNGAGAAATNGCACCGTGAGTTTTTTTATTTTGCCTTGTCCCCACACGGT 28
	TT GCTTTA GAG AT GCACCGTGAG T TAT TG C TGTCCCCACACGGT
SBJCT: 3313	TTCTGCTTTTACACAGAGGATCGCACCGTGAGCCGTGCTATCTGTCTCCTGTCCCCACACGGT 3372
QUERY: 27	TCCATTTCCTTTTGATCTGTGCAAGCTT 1
	TC TTTCTTTTG TCTGTGCAAGCTT
SBJCT: 3373	TCTGTTTTCCTTTTGGTCTGTGCAAGCTT 3399

**Fig. 9**

PANEL A

1 gtgcacggac tgnaggctgt gctcgggcca gtggtgactg catttgccac aggactcatt  
61 tactgccacg ctctgacctt gangtnttc cangtncnnn annantnann nggtannntn  
121 ntncaaaatnt tncaactncn tnaaggtnaa nggngctggg ctncaaagaga acgtanctgg  
181 ttttggtttt gagatggtgg aggcagtggg tgctgcttct cttgaactag gggcttctcc  
241 ttctgctgag cataggtgaa gctagc

PANEL B

QUERY: 265 CTAGCTTACCTATGCTCAGCAGAAGGAGAAAGCCCCCTAGTTCAAGAGAGCAGCAGCCCCAC 206  
CTAGCTTACCTATGCTCAGCAGAAGGAGAAAGCCCCCTAGTTCAAGAGAGCAGCAGCCCCAC  
SBJCT: 1173 CTAGCTTACCTATGCTCAGCAGAAGGAGAAAGCCCCCTAGTTCAAGAGAGCAGCAGCCCCAC 1232  
QUERY: 205 TGCCTCCACCATCTCAAAACCAAAACCAGNTACGTTCTCTTGNAG-CCCAGNCCCNTTNA 147  
GCCTCCACCA CTCAAAACCAAAACCAG TACG TCCTC TG AG CCCAG CCC TT A  
SBJCT: 1233 AGCCTCCACCAGCTCAAAACCAAAACCAGGTACGCTCTCTCTGGAGGCCGCCCTTGA 1292  
QUERY: 146 CCTTNANGNAGTTGNAANATTTGNANNANNNTNACCNNNTNANNNTNNTNNGNACNTGGANN 87  
CC T A G AG T A A TTG A A T ACC A T T G AC TGGA  
SBJCT: 1293 CCCTGAAGGAGGTAGAGGAGTTGGAGCAGCTGACCCAGCAGCTGATGCAGGACATGGAAC 1352  
QUERY: 86 ACCNTCAGAGGCAGAGCGTGGCAGTAAATGAGTCCTGTGGCAAATGCAGTCA-CCACTGG 28  
ACC TCAGAGGCAGAGCGTGGCAGT AATGAGTCCTGTGGCAAATGCA TCA CCAC'TGG  
SBJCT: 1353 ACCCTCAGAGGCAGAGCGTGGCAGTGAATGAGTCCTGTGTGGCAAATGCAATCAGCCACTGG 1412  
QUERY: 27 CCCGAGCACAGCCTNCAGTCCGTGCAC 1  
CCCG GCACAGCCT C GT CGTGCAC  
SBJCT: 1413 CCCGTGCACAGCCTGCGGTTCTGTGCAC 1439

Fig. 10